

Information on the flange standard EN 1092 / international comparison of grades






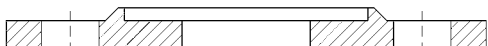


Conversion to EN 1092

The new flange standard EN 1092-1 for all flange types has been in effect since June 2002. Currently, the old standards are still in use. However, this will change since the old standards are no longer maintained and updated. New standards will exclusively refer to EN 1092.

AFRISO flanges

AFRISO usually ships type B1 flanges as per EN 1092.

This flange type differs from the former type C flanges as per DIN 2630 only in terms of the surface quality of the sealing surface. Flanges according to the old standard are available upon request.

Flanges	Sealing surface	OLD (DIN 25../26..)			NEW (EN 1092-1)	
		Shape	Standard	R _z (µm)	Shape	R _z (µm)
Flat		A	DIN 2573	–	A	12.5 – 50
		B	DIN 2576	40 – 160		
Raised face		C	DIN 2630 to DIN 2638	40 – 160	B1*	12.5 – 50
		D		40	B2**	3.2 – 12.5
		E		16		
Spring		F	DIN 2512		C	3.2 – 12.5
Groove				N	D	
Spigot		V 13	DIN 2513		E	12.5 – 50
Recess		R 13		F		
Spigot		V 14	DIN 2514 for O rings		H	3.2 – 12.5
Recess		R 14		G		

* Typically PN 2.5 to PN 40.

** Typically PN 63 and PN 100.

Stainless steel – international comparison of grades

Material no.	DIN	AISI
1.4301	X 5 CrNi 18 10	304
1.4305	X 8 CrNiS 18-9	303
1.4310	X 12 CrNi 177 / X 10 CrNi 188	301
1.4401	X 5 CrNiMo 17 123	316
1.4404	X 2 CrNiMo 17 132	316 L
1.4435	X 2 CrNiMo 18 143	316 L
1.4462	X 2 CrNiMoN 22 53	318 L
1.4542	X 5 CrNiCuNb 16-4	630
1.4571	X 6 CrNiMoTi 17 122	316 Ti
1.4541	X 6 CrNiTi 18-10	321

DIN: Deutsches Institut für Normung

AISI: American Iron Steel Institute